



A Well Drilling Industry Newsletter



MISSOURI DEPARTMENT OF
NATURAL RESOURCES

VOLUME 16 NUMBER 1

WINTER 2009

FEE STRUCTURE CHANGES

The Missouri Well Installation Board is charged by law with establishing reasonable and necessary fees to pay for the Department of Natural Resources' Wellhead Protection Section's operations. The law also prevents the board from building up a large cash reserve. The funds must be used to regulate the well drilling industry and cannot be used for anything else. These controls are intended to keep fees as low as reasonably possible.

The fees supporting the department's Wellhead Protection Section had not been changed in more than 14 years. The board voted to revise the maximum fee amounts last year through the rulemaking process. The new maximum fee amounts go into effect Feb. 1.

The next step for the board is to determine the *actual* amount to be charged for each type of fee (the new rule establishes new maximum amounts, but the board likely will not assess the full amount). The Well Installation Board met Nov. 7 and discussed establishing new actual fee amounts. Staff recommended a new fee structure that includes major changes to certification fees and a new charge for registration fees. No changes were proposed to contractor permitting fees, testing fees or late fees.

The proposed changes to the certification fee structure are significant. If the board accepts the proposed changes, the fee for certifying a water well would increase from \$35 to \$80; the

certification fee for heat pumps under 50 tons would increase from \$75 to \$100; the fee for heat pumps over 50 tons would increase from \$150 to \$200; and monitoring well certification fees would increase from \$75 to \$100.

For the first time, the proposal includes fees for registrations (well plugging and reconstruction). The Wellhead Protection Section has the authority to charge for registrations, but has never done so. However, processing registration forms requires the same level of effort as other forms and it is difficult to justify not charging for this activity. The proposed fee for registrations is \$50.

During the meeting, some attendees requested additional time to review the proposed fee structure. The board agreed and voted to make the decision on the actual fees at the next Well Installation Board meeting, Feb. 23, which will be held in conjunction with the Missouri Water Well Association's annual meeting at Lodge of the Four Seasons in Lake Ozark.

UPDATE ON APPRENTICE RULEMAKING **10 CSR 23-1.050 & 10 CSR 23-1.060**

The Well Installation Board voted Oct. 14 to move forward with the rulemaking process to require people applying for a non-restricted permit to first become an apprentice for a period of two years. The final order of rulemaking was filed with the Joint Committee on Administrative Rules and the Secretary of State's Office in November and December, respectively.

There will be a special edition of *The Connection* with information on the new apprentice rulemaking, however, below is a copy of the rule as it will be printed for your rulebooks. If you have any questions please contact Sheri Fry at 573-368-2115 or by e-mail at sherifry@dnr.mo.gov.

1.050—Qualifications

(1) All applicants for a non-restricted well installation, heat pump installation, monitoring well installation, monitoring test-hole installation, and pump installation contractor permits shall meet the following requirements:

(A) Applicant must submit the testing application, supplied by the division, and appropriate testing fee;
(B) Applicant must pass the general test (open-book) with a minimum score of seventy percent (70%);
(C) After passing the general test, applicant must submit an apprenticeship application, supplied by the division. The apprenticeship application must be accompanied by the appropriate permit fee, and must be signed by the non-restricted permittee who will be responsible for the apprenticeship and apprentice's work;
(D) After approval of the application for apprenticeship, the division will issue the applicant a permit number for use during the apprenticeship;
(E) Applicant must be an apprentice for a period of two (2) years;
(F) During the two (2) year apprenticeship the apprentice must perform the type of work applying for and sign and submit the appropriate certification or registration form on at least:

1. Twenty-five (25) different water well installations;
2. Twenty-five (25) different pump installations;
3. Ten (10) different heat pump installations; and/or

4. Twenty (20) different monitoring well sites;

(G) Applications submitted from work performed by an apprentice in other states will be considered as long as the corresponding state has construction requirements similar to the requirements of the State of Missouri. If apprentice cancels the apprenticeship, he/she may reapply, within one (1) year of termination. If the application is approved, the apprentice will be reinstated at the same status as at the point of termination;

(H) The non-restricted permittee responsible for the apprentice must also sign the required certification/registration form as the installation contractor and submit the form and appropriate fee to the division;

(I) At the end of the two (2) year apprenticeship; the apprentice must submit a testing application and the appropriate testing fee for the specific (closed-book) test;

(J) If, at the end of the two (2) year period, the apprentice has not completed the required number of installations, the apprentice may apply to extend the apprenticeship on a year by year basis; and,

(K) After completion of the apprenticeship period and passing the specific test, the apprentice must submit a contractor application, supplied by the division, with appropriate fees. After approval of the application, the division will issue the apprentice a non-restricted permit.

(L) If apprentice cancels the apprenticeship, he/she may reapply, within one (1) year of termination. If the application is approved, apprentice will be reinstated at the point of termination.

(2) The apprentice may transfer to another company; however, a non-restricted permittee must sign as the responsible party for the apprentice. The apprentice may apply to transfer to another company by submitting a new apprenticeship application to the division.

(3) Applicants for the non-restricted permit who hold a valid permit that is in good standing in another state with requirements similar to the

State of Missouri's requirements, as determined by the division, or who is currently permitted with the State of Missouri, must submit the testing application, appropriate testing fee, and proof of the valid permit to be scheduled for the test. After passing the general (open-book) and specific (closed-book) tests with a minimum score of seventy percent (70%) on each test, the applicant must submit each of the following to the Division within thirty (30) days:

- (A) A contractor application;
- (B) Vehicle application, supplied by the division, for each drilling rig, pump truck or service rig which will be used by the permittee and appropriate fee;
- (C) Proof of financial responsibility in the form of a surety bond, certificate of deposit (CD), or irrevocable letter of credit in the amount of twenty-five thousand dollars (\$25,000). The bond, CD, or letter of credit shall be:
 - (1) Placed on file with the division;
 - (2) Made payable to the Department of Natural Resources;
 - (3) Issued by an institution authorized to issue such bonds in this state;
 - (4) Certificate of deposit must be automatically renewable for timeframe covering the apprenticeship; and
 - (5) Any interest on the certificates of deposit shall be made payable to the permittee.
- (D) The requirement for proof of financial responsibility shall cease after two (2) consecutive years of permitted activity if the contractor does not have any outstanding notices of violation against their permit. If the contractor does not have any outstanding violations at the end of the two (2) year period, the bond or letter of credit will be returned to the contractor within thirty (30) days of the end of the two (2) year period;
- (E) If at the end of those two (2) years the division has found that the contractor has failed to meet the construction standards set forth in the Missouri Well Construction Rules, the division shall notify the contractor, within sixty (60) days, that the bond or letter of credit will be forfeited and the moneys placed in the

Groundwater Protection Fund for remedial action, if the permittee does not bring the well up to the standards established in the notice of violation within the timeframes determined by the division. The division may, upon expiration of the notification period, expend whatever portion of the bond or letter of credit is necessary to hire another contractor to bring the well or borehole up to the standards set forth in the notice of violation or to plug the well and construct a new well; or,

(F) If at the end of those two (2) years the division has found that the contractor has outstanding violations against the administrative standards set forth in the Missouri Well Construction Rules, the division shall notify the contractor, within sixty (60) days that the bond or letter of credit will continue to be held as a condition of permit renewal for period of another two (2) years.

(4) A special restricted permit and examination are available, upon request, for those persons who only drill unconsolidated material wells or set pumps in them. To be scheduled for this type of restricted examination, an application must be received at least fifteen (15) days prior to the testing date for which the applicant wishes to be scheduled. If a restricted permittee is found to be drilling or setting a pump in a type of material they are not permitted to operate in, they will be subject to appropriate enforcement action.

(5) Information on where to obtain applicable study material will be available to each applicant prior to testing;

(6) A testing schedule will be available upon request of the applicant;

(7) A completed application for testing must be received fifteen (15) days prior to the testing date for which the applicant wishes to be scheduled. The division will notify the applicant within ten (10) days from receiving the completed application for testing if the applicant has qualified to take the test applied for and the



date of the next available test. The testing fee is due before the test is given;

(8) A minimum score of seventy percent (70%) on the general test, and a minimum score of seventy percent (70%) on each required specific test must be achieved by the applicant prior to being permitted. The applicant will be sent the results of the test as soon as possible. If applicant has a passing score, the appropriate applications for permit will be included with the results;

(9) Applicant may retake all tests on the same day if time allows. All retakes must be accompanied by the testing fee;

(10) If a request is made and documented more than thirty (30) days in advance, the exam may be taken orally. The same exam will be given and the same results must be achieved on an oral exam as for a written exam. Due to the special nature of this type of exam, special scheduling dates will be necessary. People with disabilities requiring services or accommodations can make arrangements by contacting the division;

(11) Any applicant who does not agree with his/her test results, may appeal to the Well Installation Board;

(12) If an applicant wishes to withdraw his/her application for testing, s/he may do so by requesting, in writing, ten (10) days in advance. If the applicant does not cancel as stated and is not present for the test, they may reschedule up to two (2) times. If after the second reschedule the applicant does not appear, the testing application will be cancelled and the fee will be forfeited. If the applicant wishes to take the test after the testing application has been cancelled, they must reapply and submit the appropriate fee;

(13) Persons who contract the drilling of wells, installation of pumps, or both, but do not drill the wells or set the pumps must be a permitted well installation, heat pump

installation, monitoring well installation, monitoring-test hole installation, or pump installation contractor, or any combination of these. The only test required is the general (open-book) test. A restriction must be placed on the permit which states that any well drilling or pump work contracted be done by a nonrestricted permitted installation contractor. Persons who wish to apply for this type of exam shall submit the testing application and appropriate fees;

(14) A nonrestricted permitted well installation, heat pump installation, monitoring well installation, monitoring-test hole installation, pump installation contractor, or any combination of these, must be present at all times during the apprentice's initial number of installations (see 1(F) of this rule). The nonrestricted permittee must be on site during the initial installations (see 1(F) of this rule) while a well is being drilled and completed, a pump is being set, or any combination of these; and

(15) Persons who wish only to drill the heat pump hole and grout the closed-loop into the heat pump hole must obtain a permit to do so. The permit will be restricted to the previously mentioned activities and a current nonrestricted water well installation contractor's permit is required as one of the qualification criteria. Those people who wish to apply for this type of heat pump installation contractor's permit that have a valid nonrestricted water well installation contractor permit must only take the general test covering heat pump construction.

(16) Applicants for contractor permits who do not meet the requirements set out in this rule may petition the board. The board has the authority to rule upon the qualifications of the applicants and may require additional evidence of qualifications.



1.060—Application for a Permit

(4) All applicants shall submit an application. The division shall not act upon the application until they have received all required information, the appropriate fee, a passing grade on the appropriate exams, and, if applicable, proof of financial responsibility. If applicant holds a valid permit from another state with requirements similar to the State of Missouri's the applicant must also submit proof of the valid permit. Proof shall be at the discretion of the division. An application will not be acted upon or it will be denied if the applicant has violated any rules and has not remediated these violations. The division may issue a permit on a probationary status.

(2) The application shall be accompanied by the appropriate fee(s). The fee shall be made payable to the Groundwater Protection Fund. There will be no refund of monies paid for the permits after the fee has been transferred to the Groundwater Protection Fund in Jefferson City unless the request is made in writing. In the case of any change of status of any permittee, that permittee shall notify the division and submit a new application and appropriate fee required pursuant to these rules. In the case of either change in ownership of a rig or the purchase of a new rig, a new application form and the appropriate fee must be sent to the division and a new card will be issued.

WELL INSTALLATION BOARD NEWS

At the Nov. 7 Well Installation Board meeting, Jacquelyn Eaton was introduced as the newest board member. She replaces Patricia Nichols whose term had expired.

At the meeting, the board heard from staff on several topics. Items discussed include an enforcement update, the section's fee increase (see *Fee Structure Changes* article in this edition) and an update on current rulemakings.

The next meeting of the Well Installation Board is scheduled for Monday, Feb. 23, at Port

Arrowhead Resort, 3080 Bagnall Dam Blvd., in Lake Ozark. This meeting is being held in conjunction with the Missouri Water Well Association annual meeting. Open session will begin at 10 a.m.

MISSOURI RURAL WATER ASSOCIATION TRAINING

Over the past few months, Sheri Fry and Beth Marsala of the department's Wellhead Protection Section have provided training on Section 256.628 RSMo. This is the regulation that requires all public water supplies to report to the department when they connect a customer who previously was served by a private well. When a well owner connects to a public water supply, they may continue to use the private well, but the department will follow up on that well every two years to ensure the well is still in use or has been plugged. Marsala and Fry presented this information to a Missouri Rural Water Association Conference and Expo held Aug. 20 in Sikeston. Marsala also presented this information in Lake Ozark to the Missouri Rural Water Association's Office Professionals Seminar 2008 on Oct. 28. Another presentation was given to water and wastewater operators on Oct. 31. All participants were provided with forms and brochures explaining the reporting requirement.

The Wellhead Protection Section has also been visiting many public water supplies to make sure they are aware of the well reporting requirements. A letter was sent in August to all public water supplies informing them of their responsibility under this law. This outreach will continue to ensure public water supplies know about the requirements.

The Missouri Rural Water Association has also notified its members of this requirement at trainings and in its newsletter. Hopefully, this cooperative effort will help to get the message out and wells no longer in use will be plugged.



STATUS OF AMENDMENTS TO MONITORING WELL RULES

The department has started the process of amending the Monitoring Well Construction Code, 10 CSR 23-4.010 through 10 CSR 23-4.080. A draft of the amendments can be found online at www.dnr.mo.gov/env/wpp/rules/wpp-rule-dev.htm. Stakeholder meetings were held throughout the state to gather comments and suggestions. Although there was not a large turnout at the five meetings, the comments were very helpful and right on target. We appreciate all the input received.

Staff will now redraft the amendments and incorporate the comments received. The amended rules will be reviewed internally again by Department of Natural Resources' staff and other firms that requested a second review. Once we have another draft, it will be placed online at the above address. If you would like to be part of the review process, please contact Sheri Fry at 573-368 2115.

We hope to present the final draft to the Well Installation Board at the February meeting. If the board approves, the amendments will be filed with the Secretary of State's Office to be published in the *Missouri Register*. There will be a 30-day comment period and a public hearing. All comments will be addressed in an Order of Rulemaking the board must approve. We anticipate the rule becoming final sometime during the last three months of 2009.

REPORTING A WELL CONCERN

Do you want to report a concern about how a well was drilled, an unplugged abandoned well, or another type of threat to the groundwater or other resources in Missouri? Do you have a question about the law or rules? You can find out the answers or report something easily by visiting the department's Web site at www.dnr.mo.gov/concern.htm and filling in a short form.

This site is monitored daily and the questions, concerns and reports are sent to the appropriate staff for resolution. You may also

report your concerns to a regional office and their staff will investigate the report or forward it to the appropriate person.

Keep in mind that according to the Missouri Sunshine Law, any information gathered or maintained by the department is considered an open record unless specifically protected from disclosure. However, if you do not provide your name or contact information, you will remain anonymous. There are two disadvantages to remaining anonymous. One is that if we don't have enough information we will be unable to contact you to get the necessary information and may not be able to conduct a full investigation. Another is that we won't be able to give you the results of our investigation.

Any report the department receives by phone, in writing or online is investigated. We will be glad to inform you of the results of the investigation if you give us your contact information.

2009 MISSOURI STATE OFFICE CLOSINGS

The following is a listing of all the holidays that are observed by the State of Missouri.

New Year's Day	Thursday, Jan. 1
Martin Luther King, Jr. Day	Monday, Jan. 19
Lincoln Day	Thursday, Feb. 12
Washington's Birthday (Observed)	Monday, Feb. 16
Truman Day	Friday, May 8
Memorial Day	Monday, May 25
Independence Day	Friday, July 3
Labor Day	Monday, Sept. 7
Columbus Day (Observed)	Monday, Oct. 12
Veterans Day	Wednesday, Nov. 11
Thanksgiving	Thursday, Nov. 26
Christmas Day	Friday, Dec. 25

MISSOURI STATE OFFICE CLOSINGS INFO LINE 888-390-9927

In an effort to increase efficiencies in state government, all Missourians will now have access to call **888-390-9927** toll free for an updated announcement of state office building closures. The hotline will be a useful tool for informing both citizens and employees if buildings are closed or if hours are extended in



the event of an emergency or safety threat. The toll free number is informational only and will not accept messages from callers for follow-up.

LEAD IN MISSOURI'S DOMESTIC WATER SUPPLIES

Lead has played an important role in the settling and development of Missouri. The first lead deposits were mined by the French as early as 1720 in southeast Missouri, in the area now referred to as the "Old Lead Belt." In the mid-19th century, lead and zinc deposits were discovered in southwest Missouri, primarily in Jasper and Newton counties. A third major area of lead deposits were developed in south-central Missouri in the 1950s, in an area known as the Viburnum Trend. In addition, smaller deposits of lead have historically been mined throughout a wide area of southern Missouri.

Lead mining hastened the early economic development of Missouri, especially the building of roads, towns and railroads. Some of the world's largest lead deposits are located in Missouri. Since those initial deposits were discovered, the state has gone on to become one of the largest producers of lead in the United States. Lead has played such an important role in Missouri's history and economics that in 1967 Galena was designated the official state mineral of Missouri. Galena is the most common lead-bearing sulfide mineral in the state. Cities with names such as Leadington, River Mines, and Leadwood reflect the importance that lead deposits have held within Missouri. The cities of Park Hills and Joplin were initially settled primarily as lead mining communities.

For all the benefits lead has provided to Missouri, it can also be a health hazard and a contaminant. Lead can be ingested in several ways. The most common methods of ingestion are by breathing in lead particles or dust that has a lead content, by drinking water that has been in contact with lead minerals, and by drinking water that has been in contact with decaying pipes or fixtures that contain lead. Many homes built from the early 1900s up to

1940 contained lead piping. After 1940, many of the pipes used in home construction were still, to some extent, made with lead. It was not until 1986 that a nationwide ban restricted the use of lead pipes for drinking water supplies. When copper pipes replaced lead piping, lead solder was often used. Chrome plated faucets are often made of brass, which can contain 3 to 8 percent lead. As the faucets and piping degrade, lead is introduced into the water.

The amount of lead required to cause damage is somewhat dependent on the individual. High levels of lead in humans can result in seizures, coma, and even death. At lower levels, lead ingestion can cause fatigue, disturbed sleep and damage to the kidneys and liver. Lead can damage the nervous system of infants and children, causing behavioral disorders and learning disabilities. The U.S. Environmental Protection Agency estimates that 10 to 20 percent of all human lead contamination is derived from drinking water. However, for infants on a formula diet the EPA estimated lead contamination due directly to drinking water is 40 to 60 percent. Lead contamination in drinking water can be especially dangerous to newborns and infants, as their diet can often consist of up to 20 percent water.

While individuals can be exposed to lead from a variety of sources, the elevated lead levels in some drinking water sources within the United States have become a concern. Because of this, EPA established a new National Primary Drinking Water regulation for lead in 2006, reducing the acceptable lead level in public drinking water from 50 parts per billion (ppb) to 15 ppb. The EPA requires public water suppliers to test the water they supply. If high levels are found, EPA requires the water be treated to bring it within safe limits (below 15 ppb). The EPA does not regulate private water supplies (domestic and multifamily wells). It is left to the well owner to test and treat the water as needed to avoid over exposure to lead. Testing is the only method to detect lead in water. Water contaminated with lead will not exhibit a change in odor, taste or color.



If the water in an individual's supply tests above 15 ppb, treatment is necessary to lower the level. The two most effective treatment methods for removing lead are reverse osmosis and distillation. Reverse osmosis is a method whereby the water is forced under pressure through a membrane formulated to reject certain substances. Distillation (boiling the water, collecting, and condensing the steam) can remove up to 99 percent of the lead in the water. The EPA does not recommend cartridge filters, carbon filters, and sand filters to remove lead from water.

Sources:

Lead and Your Drinking Water, Office of Water, United States Environmental Protection Agency.

Lead in Drinking Water, MIT Educational Fact sheet, 1996

Missouri Lead, Missouri Department of Natural Resources, Pub000659

Drinking Water Fact Kit, Lead in Drinking Water, NSF International

NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, Public Health Service and Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.

MISSOURI ONE CALL CHANGES EFFECTIVE JAN. 1

On Jan. 1, changes to Missouri law concerning damage prevention to underground facilities went into effect. Prior to Jan. 1, utilities had two working days to mark underground utilities. The day the locate call was received counted as the first day and the day after was the second. The new law allows more time for the utility company to respond. Now, the day the utility receives the locate call will not count as the first day. The working day response time will begin at midnight the day the utility receives the locate call and then the utility has two full working days to respond. Previously, if the utility did not show up in the two day period, a

"No Response" ticket was issued which gave the utility another working day to respond. The new law reduces the response time for a utility once a "No Response" ticket is made. The utility has two hours to respond to a "No Response" ticket. If the utility receives a "No Response" ticket before 2 p.m. the marking of the utility lines must be completed by the end of the working day. If the call is received after 2 p.m., the utility has until 10 a.m. the next working day to complete the marking.

When a locate request is received, additional information is now required. The excavator will have to provide a fax number, e-mail address and cell phone number. The name of the person conducting or supervising the excavation will also be required. It should also be determined in advance if the dig site is on public right-of-way. Road and highway departments with underground facilities are required to participate.

If the utilities have been marked and damage occurs during the excavation, the excavator only has to notify the Missouri One Call using the "Dig up Ticket". If the damage involves a pipeline or natural gas line, the excavator should call 911, the affected utility and the department's Environmental Emergency Response unit immediately. The department's Environmental Emergency Response unit can be reached at 573-634-2436.

If an emergency locate request is received, the affected utility now has only two hours to respond. An emergency locate request must be life threatening or present potential property damage. For example, an emergency locate request would include locating a ruptured gas line or excavating to prevent property damage by flooding. An excavator placing an emergency locate request which does not meet the definition of the law will be eligible for billing by the utility. The utility may determine if the calls fits the definition of an emergency.



To obtain a Missouri timeline card please go to Missouri Rural Water download Center at www.moruralwater.org/dlcenter/index.php?file=36

Please note the changes discussed in this article are a summary and should not be considered as all inclusive. It is recommended you contact Missouri One Call at 800-344-7483 for specific questions or additional information.

RECONSTRUCTION RECORD REPORTING CHANGES

According to the Water Well Drillers Law, a registration report is to be sent to the Department of Natural Resources upon completion of plugging an abandoned well, raising casings, lining wells, deepening wells, major repairs and alterations of a well. The Reconstruction Report Form (department form number 780-1414) shall be used to report the raising of casing, lining of wells, deepening of wells, major repairs and alterations of any well, including water wells, heat pump systems and monitoring wells. This form must be submitted to the department by the permittee within 60 days after the completion of the work. Late fees are assessed for records submitted after 60 days from completion.

Below is an excerpt from the Missouri Well Construction Rules, or MWCR, about the repair of wells:

a. All materials used in maintenance, replacement or repair of any well shall meet the requirements of the Missouri Well Construction Rules as the same for new construction.

b. Broken, punctured or otherwise defective or unserviceable casing, screens, fixtures, seals or any part of the wellhead shall be repaired or replaced. The well shall be plugged in accordance with the requirements of the Missouri Well Construction Rules if that repair or replacement is not performed.

c. Repairs to wells originally completed with the wellhead terminating below ground should include extending the well casing one foot above finished grade surface. The casing extension material must be of similar material to the original casing. On steel casing the

joint must be welded, coupled or threaded, on plastic casing the joint must be glued or fused. The use of devices specifically designed to join dissimilar casing materials together will be considered on a case-by-case basis by the division. Approval must be received in advance.

Section 10 CSR 23-3.080 of the MWCR gives the requirements for the installation of liners in wells.

Replacement pump information is not required to be submitted on a Reconstruction Report Form unless requested by the department. Also, any well installation contractor or pump installation contractor acting as primary contractor in the construction, alteration, major repair or abandonment of any well shall be required to obtain a permit from the department and comply with all rules and regulations promulgated pursuant to section 256.600 to 256.640 of the "Water Well Drillers Act". In other words, if you perform either the pump or drilling work, you must have a permit to do so.

SPECIAL AREA 2 UPDATE

Each year the Wellhead Protection Section reviews and updates the casing depth map for Special Area 2. If required, new impact areas are added and if available, any published updates for the area roads are added into the newly revised map. It is important to remember that the current map is valid from Jan. 2, 2008 through Jan. 1, 2009. The map was reviewed in November and December 2008. The new map is valid for Jan. 2, 2009 through Jan. 1, 2010. Each map has the effective dates noted on it. It is important to be sure the correct map is used when drilling in Newton and Jasper Counties, as an older version may not have all the known impact areas highlighted.

Recently, a notification was sent to several drilling contractors who have drilled in Special Area 2. This notification concerned wells more than six months old where no sampling data had been submitted. All well drilling contractors are responsible for ensuring the samples are



taken from the wells in question and the results provided to the department in a timely manner. If a contractor or homeowner wishes to have a sample of their well water analyzed for lead or cadmium, the department's Wellhead Protection Section can provide a list of individuals qualified and properly trained to take a water sample for lead or cadmium. The Wellhead Protection Section can also provide a list of laboratories certified to perform the needed drinking water analysis.

CONTRACTOR AND APPRENTICE WELL AND PUMP INSTALLATION TESTING SCHEDULE

All tests begin at 9 a.m.

The following 2009 testing dates will be held at Division of Geology and Land Survey, 111 Fairgrounds Road in Rolla.

- Feb. 18
- March 18
- April 15
- May 20
- June 17
- July 15
- Aug. 19
- Sept. 16
- Oct. 21
- Nov.
- Dec. 16

Testing dates may be modified if necessary. If you have questions or a disability that requires special services, please call 573-368-2450.

Please bring a picture ID to the testing site.

If you are applying for a non-restricted permit, be sure to bring your global positioning unit, or GPS, and operating manual to the test site. Your GPS unit should be programmed to read in degrees, minutes, and seconds in accordance with 10 CSR 23-3.060(5).

WELCOME

The following individuals are now part of the Department of Natural Resources-permitted contractor community:

- Boart Longyear – Jason Drabek
- Bowers Pump Service – Thomas Bowers
- Brand Well Drilling and Pump –
Brady Gerstner
- Environmental Works Inc – Justin Brown
- Fritsche Plumbing and Heating –
Joshua Fritsche
- JM Sales and Pump Service –
Jacob Minton III
- Larsen and Associates Inc – Lisa Larsen
- Mundell and Associates – Mark Breting
- PCS Industrial Outsourcing – Jeffrey Crank,
Jerry Hancock
- Redox-Federal – David Back

FAREWELL

The people addressed below are no longer permitted to operate as contractors according to the Water Well Drillers Act and Well Construction Regulations:

- All Pumps and Septics LLC – Tony Summers, Carl Roberts
- Allens Pump Service – Elsie Allen
- Barker Lemar Engineering – Emily Miller
- Burns & McDonnell – Patrick Higgins
- Ebbert, Daryl
- Herst & Associates – Brett Shank
- Layne-Arkansas – Jimmy Crouch
- Layne-Arkansas – Grady Teel
- Midwest Engineering Services – Roger Burton
- MoDNR – Dean Lamb, Julie Pearson, Larry Erickson, Marie Lopez
- Precision Heating & Cooling – Christopher Juliano
- Skinner, Logan
- Terranext – Michael Giuliani
- Tietz, Paul
- URS – Kurt Owings, Brian Williamson
- Vigil, Thomas



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Editor's Note: The Connection is published quarterly by the Missouri Department of Natural Resources' Division of Environmental Quality. If you have any suggestions, ideas or comments concerning this newsletter, please let us know. Send comments to:
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